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8/3,AB/1     (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)


15361804   PMID: 15170832
Radiofrequency power deposition utilizing thermal imaging.
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Magnetic resonance in medicine - official journal of the Society of Magnetic Resonance in Medicine / Society of Magnetic Resonance in Medicine (United States)   Jun 2004,   51   (6)   p1129-37,   ISSN 0740-3194
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Wavelength effects influence radiofrequency (RF) power deposition distributions and limit **magnetic resonance** (MR) medical applications at very high magnetic fields. The power depositions in spherical saline gel phantoms were deduced from proton resonance shift thermal maps at both 1.5 T and 3.0 T over a range of conductivities. Phase differences before and after RF heating were measured for both a quadrature head coil and a circular **surface coil**. A long echo time (TE) pulse sequence with a 3D phase unwrap algorithm provided increased thermal sensitivity. The measured thermal maps agreed with a model of eddy-current heating by circularly polarized oscillating RF fields in a conducting dielectric sphere. At 3.0 T, thermal maps were acquired with a <0.32 degrees C temperature rise at 4 W. Proton resonance shift thermal maps provided a measure of hot spots in very-high-**field MR imaging** (**MRI** ), in which both the phase sensitivity and signal-to-noise ratio (SNR) were increased. The method provides a means of studying the heat distribution generated by RF coils excited by clinical pulse sequences. Copyright 2004 Wiley-Liss, Inc.

8/3,AB/2     (Item 1 from file: 434)
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09545677   Genuine Article#: R9995   Number of References: 10
Title: INCREASED RF POWER ABSORPTION IN **MR IMAGING** DUE TO RF COUPLING BETWEEN BODY **COIL** AND **SURFACE COIL**
Author(s): BUCHLI R; SANER M; MEIER D; **BOSKAMP EB**; BOESIGER P
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Journal: MAGNETIC RESONANCE IN MEDICINE, 1989, V9, N1, P105-112
Language: ENGLISH   Document Type: ARTICLE